

ABSTRACT

To improve response characteristics of liquid crystal molecules to an electric field at the time of a switching operation in an MVA mode liquid crystal display device. A concentration of a photo-cured product by a photo-curing composition having a liquid skeletal structure for liquid crystal molecules upon spray or bend deformation is set to 0.3 to 3 wt%, the liquid crystal skeletal structure is formed under the tilt state to substrates, and a mean tilt angle of the liquid crystal molecules falls within a range defined by a polar angle of the liquid crystal skeletal structure and a pre-tilt angle of the liquid crystal molecules in the proximity of the substrate interface.

TOP SECRET